Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1-18. (cancelled)

19. (currently amended) ~~The~~ An integrated circuit communication device ~~according to claim 18, the decision feedback sequence estimation circuit~~ configured for operation over a multi-pair transmission channel, the communication device comprising:

a decoder circuit receiving and decoding at least one intersymbol interference (ISI) compensated signal sample, and generating tentative decisions and a final decision; and

a decision feedback equalizer coupled in feedback fashion to the decoder ~~block~~ circuit, the decision feedback equalizer including a set of low-ordered coefficients and a set of high-ordered coefficients, the decision feedback equalizer generating a first portion of ISI compensation for the second ISI compensation for the second ISI component based on the tentative decisions and the high-ordered coefficients.

20. (original) The integrated circuit communication device according to claim 19, wherein the decision feedback sequence estimation circuit further comprises a convolution engine coupled to the decision feedback equalizer to receive values of the low-ordered coefficients, the convolution engine computing a set of pre-computed values representing a set of potential second ISI compensation portions for the second ISI component.

21. (currently amended) The integrated circuit communication device according to claim 20, wherein a ~~second~~ first digital signal is combined with the first portion of ISI compensation to produce a ~~third~~ second digital signal partially compensated for the second ISI component.

22. (currently amended) The integrated circuit communication device according to claim 21,

wherein the decision feedback sequence estimation ~~circit~~ circuit further comprises a multiple decision feedback equalizer coupled to the decision feedback equalizer and the convolution engine, the multiple decision feedback equalizer combining the set of pre-computed values with the ~~third~~ second digital signal to produce a set of potential digital signals, one of the potential digital signals being substantially compensated for the second ISI component.

23. (original) The integrated circuit communication device according to claim 22, wherein the first ISI component represents ISI introduced by a remote transmission device, and wherein the second ISI component represents ISI introduced by transmission channel characteristics.

24-159. (cancelled)